

09768877-081701

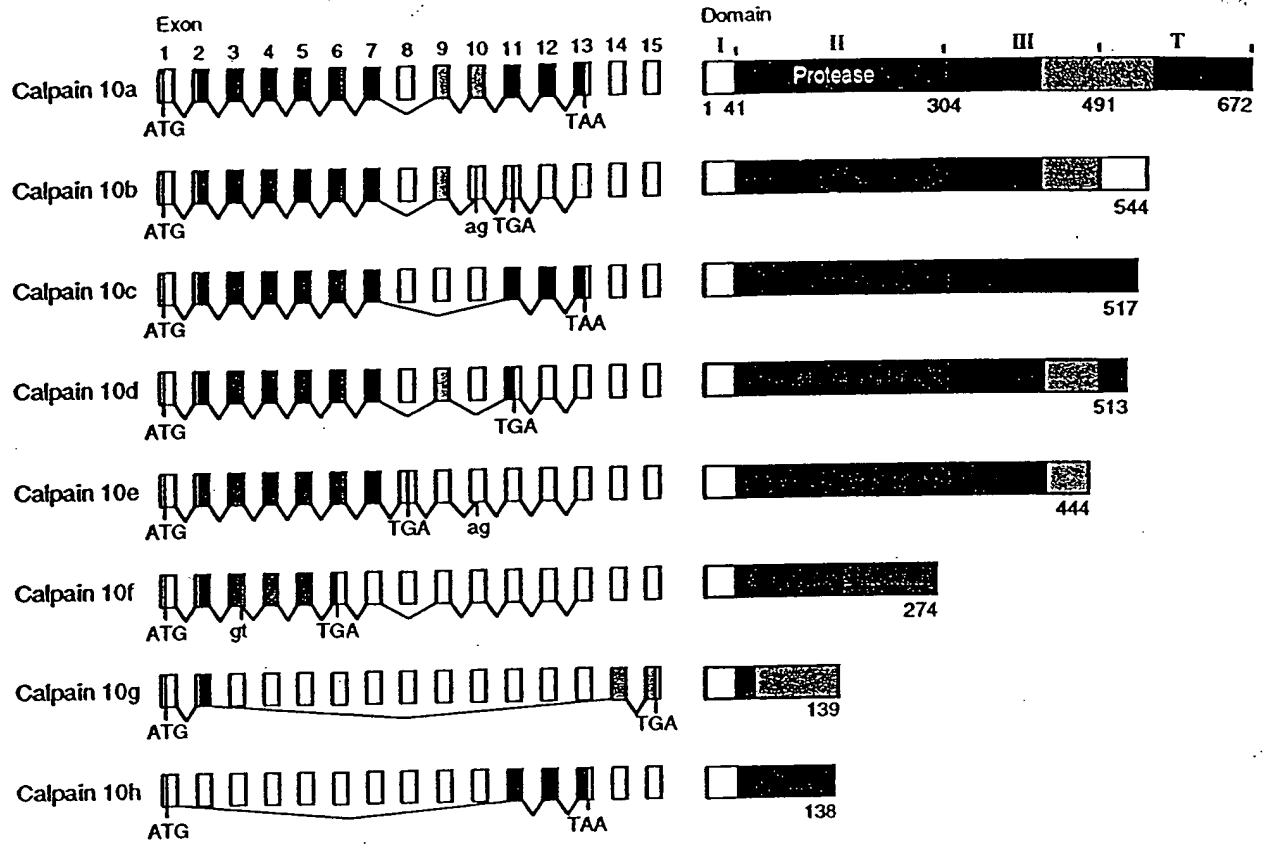


FIG. 1

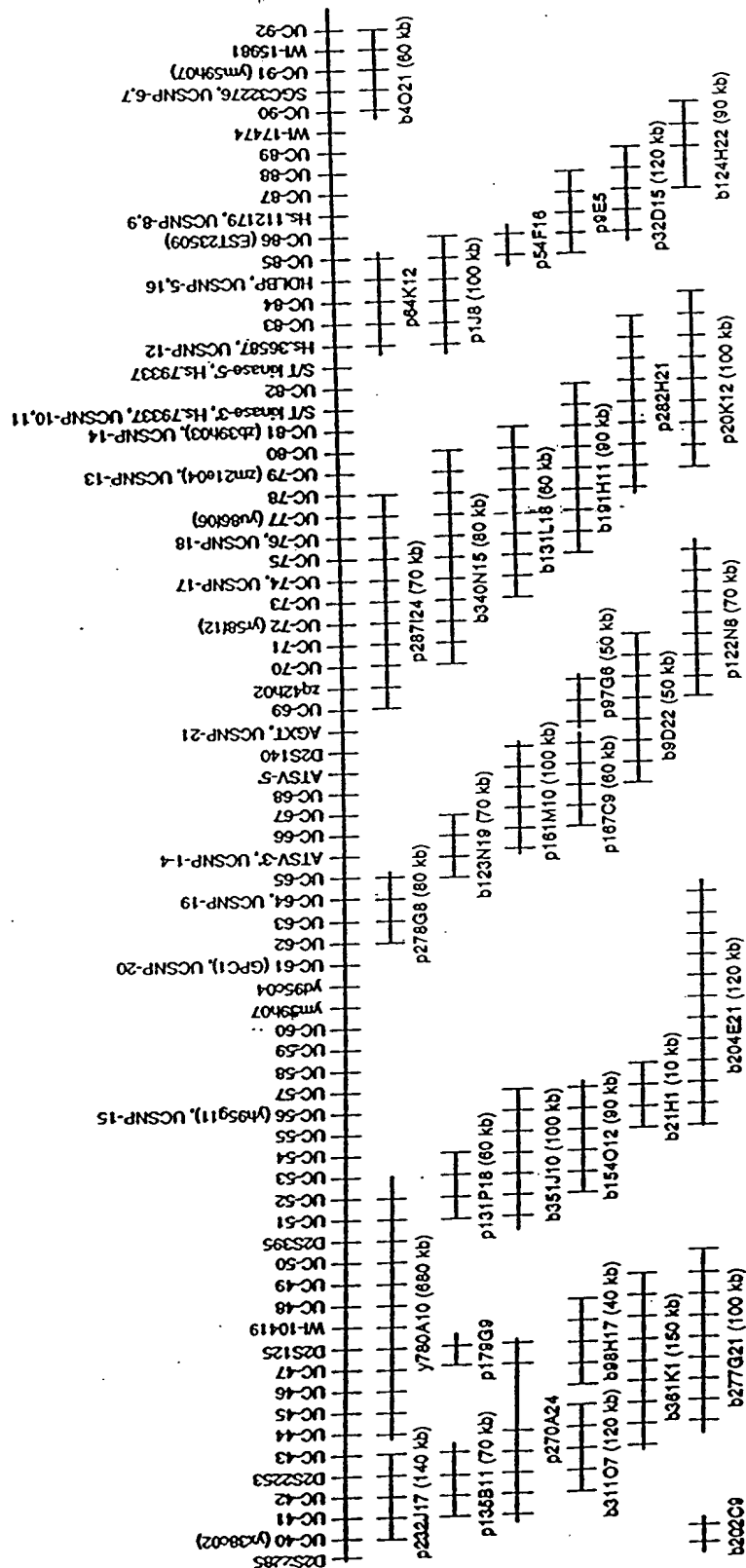


FIG. 2

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FIG. 3

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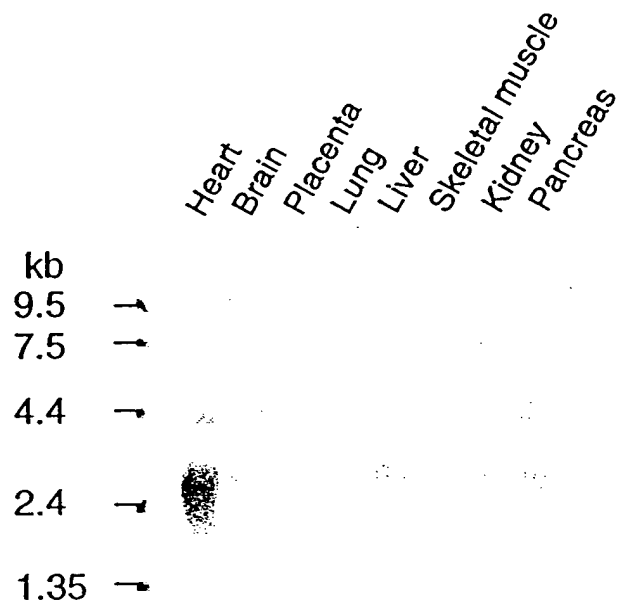


FIG. 4

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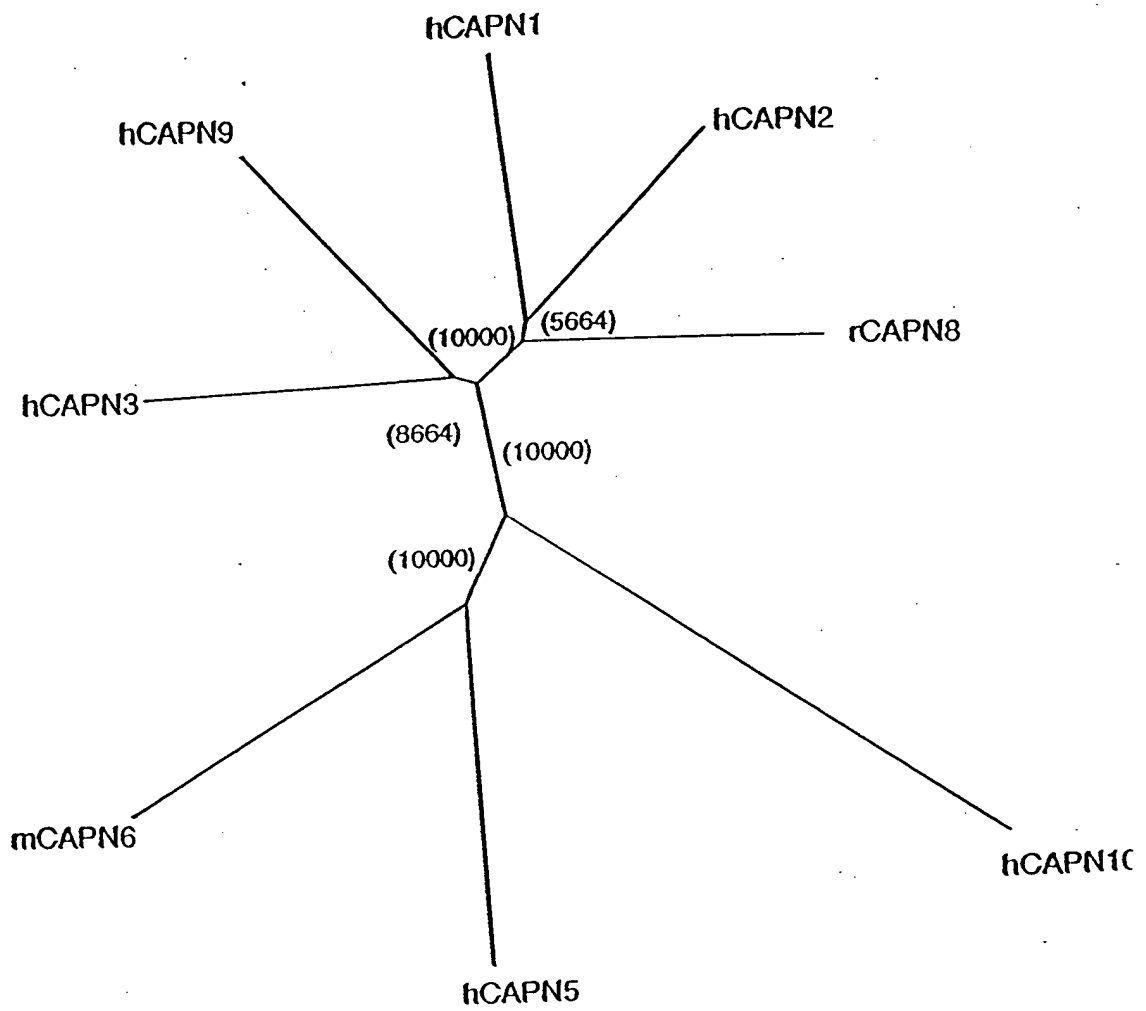


FIG. 6

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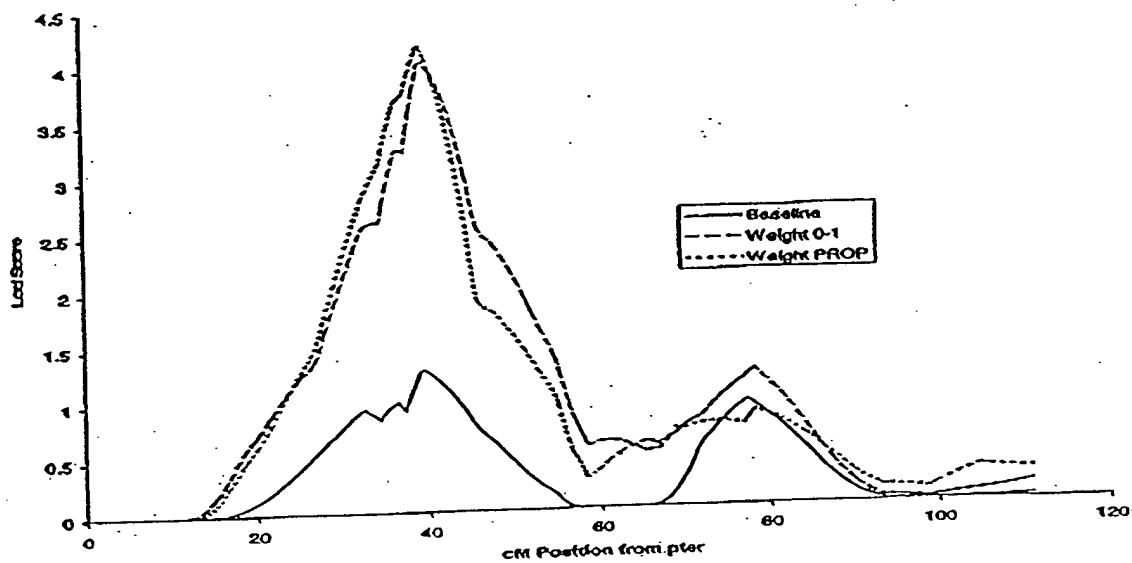


FIG. 7A

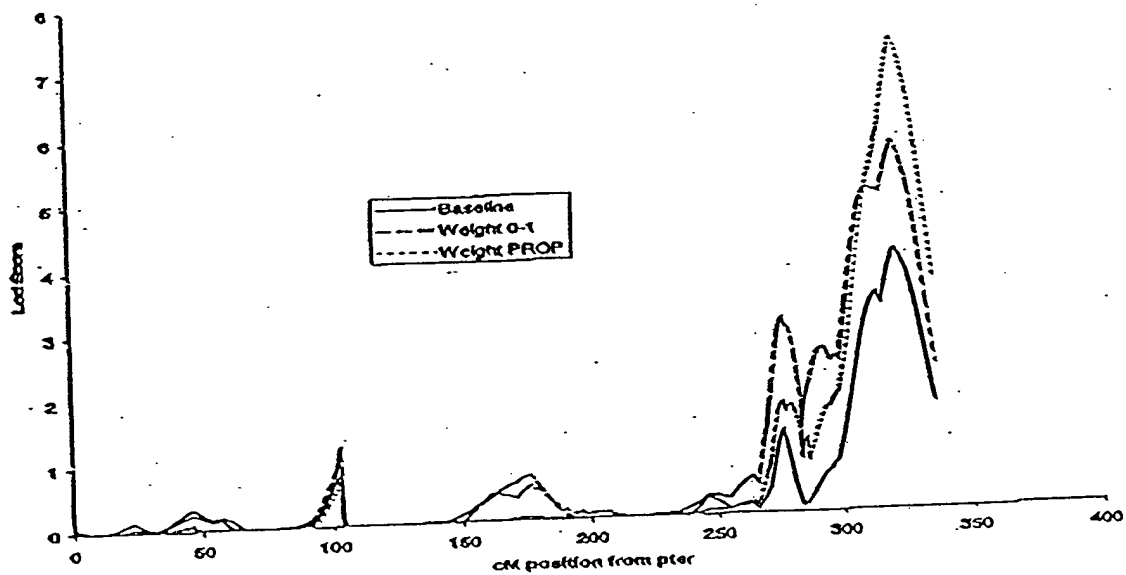


FIG. 7B

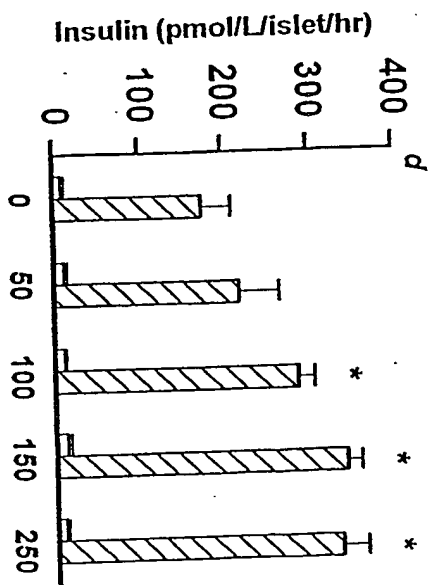
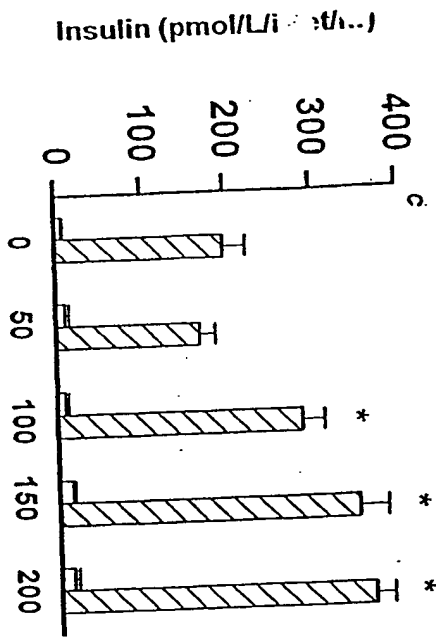
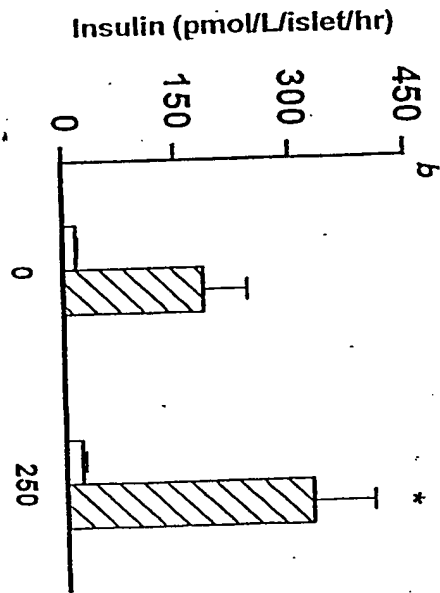
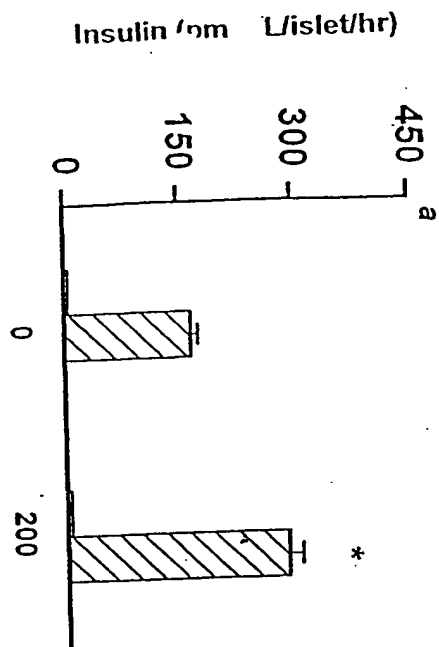


FIG. 8

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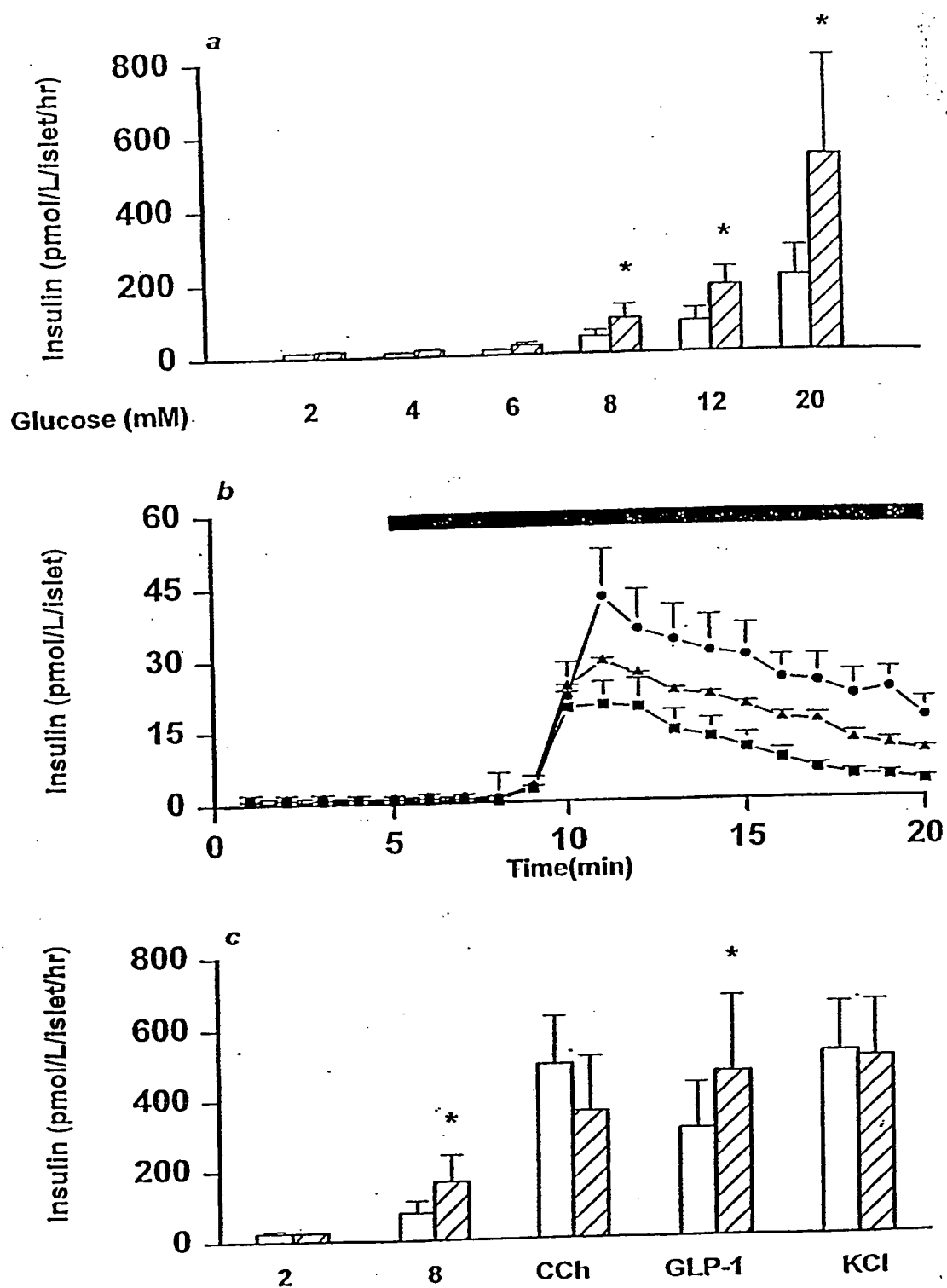


FIG. 9

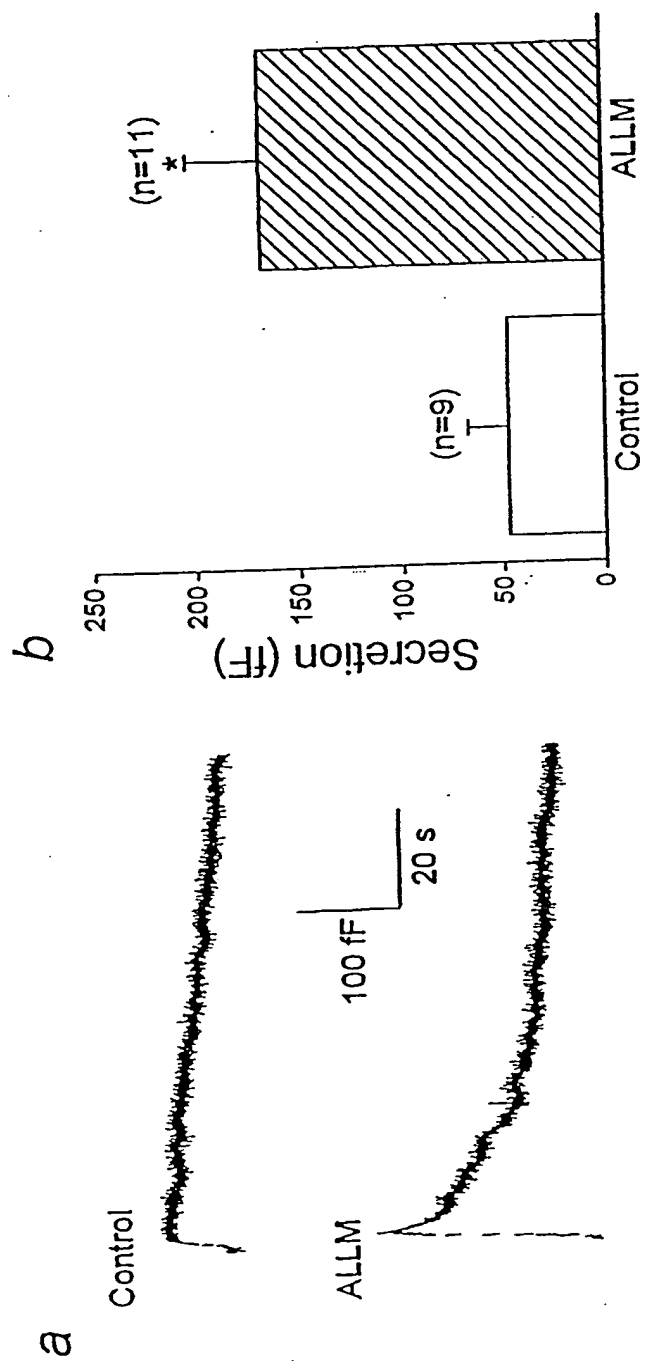


FIG. 10

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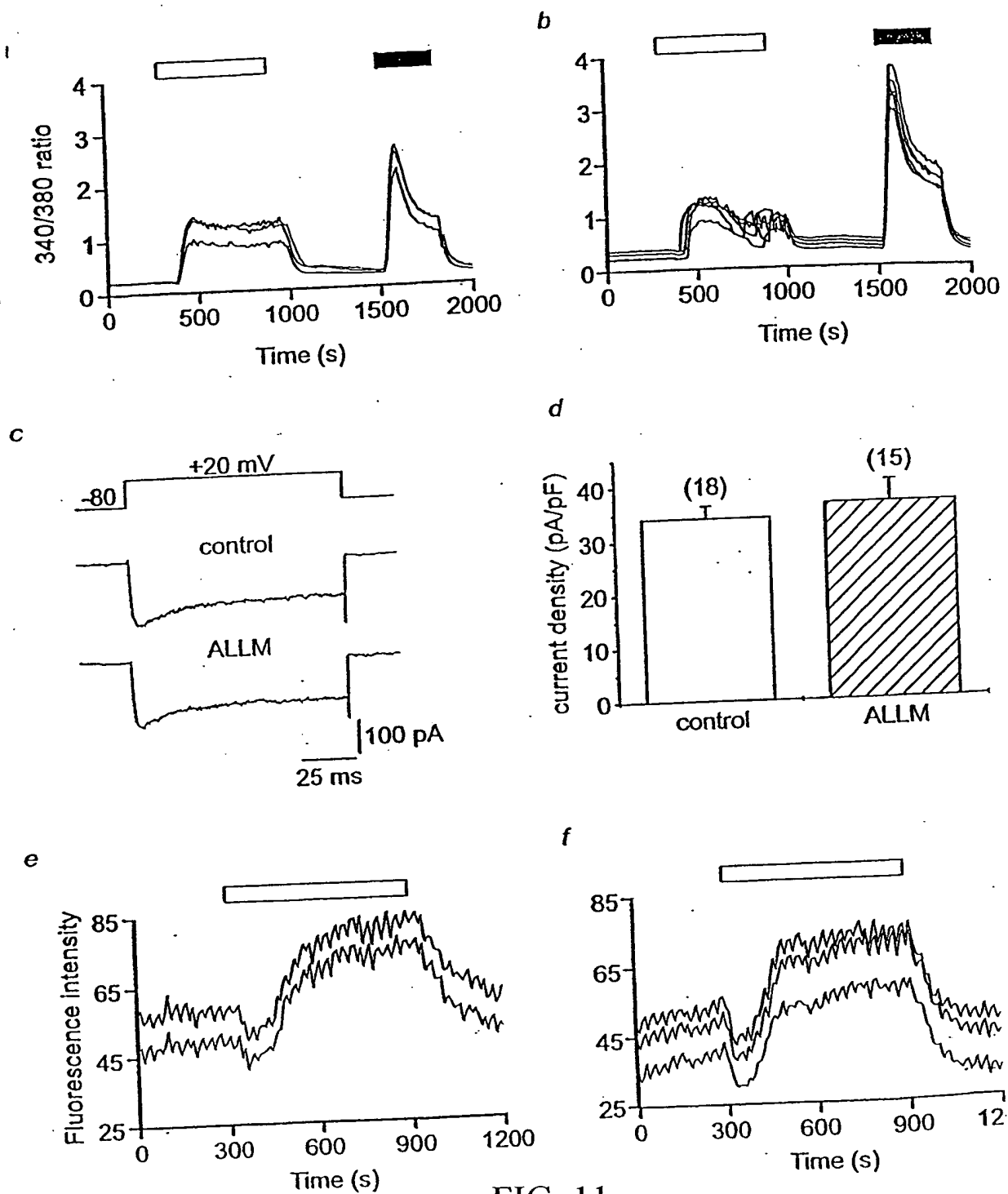


FIG. 11

10.11.80 22.889260

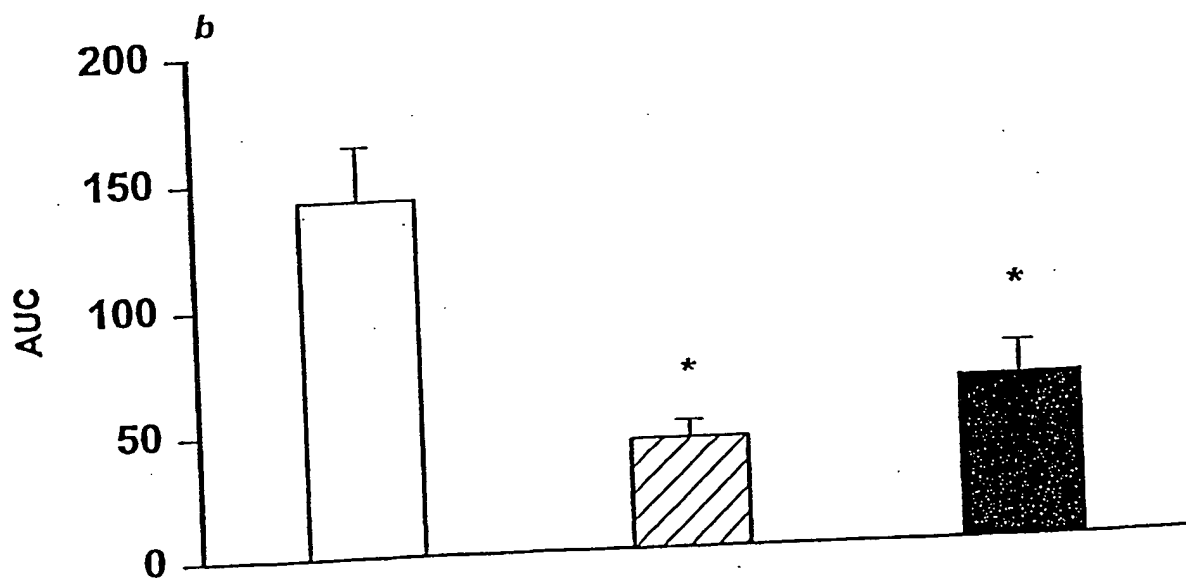
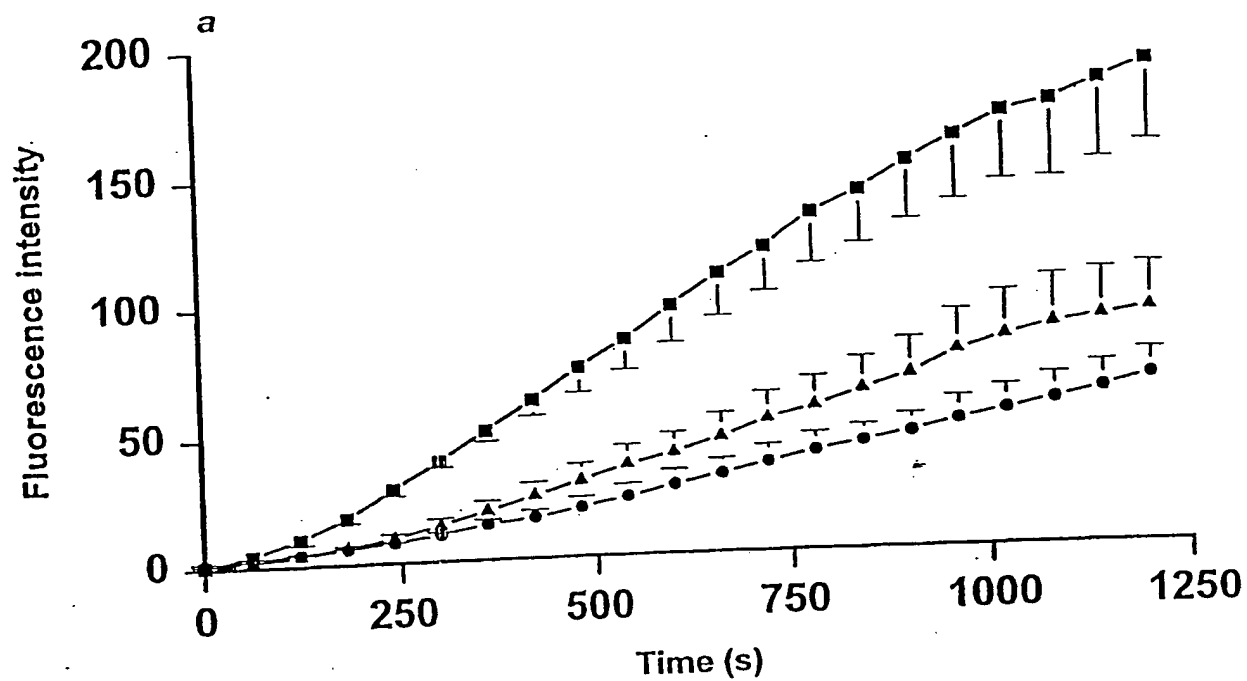


FIG. 12

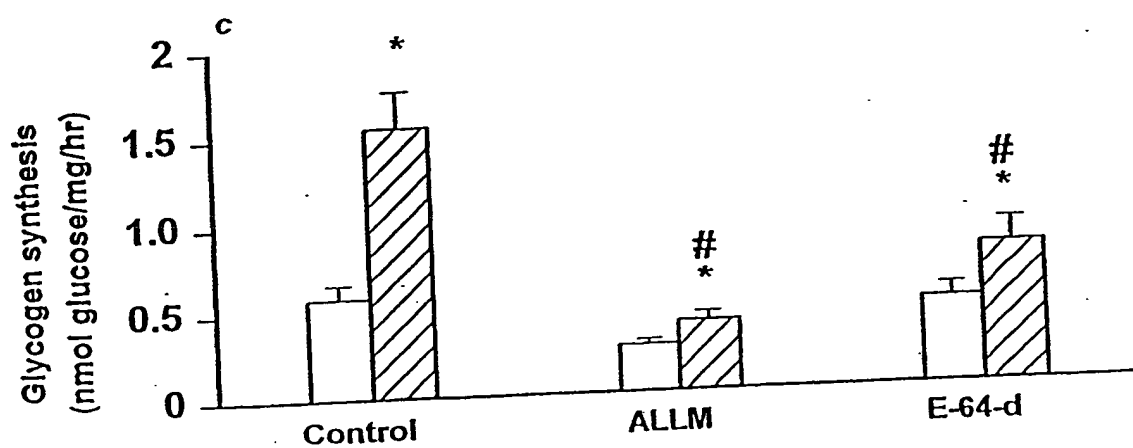
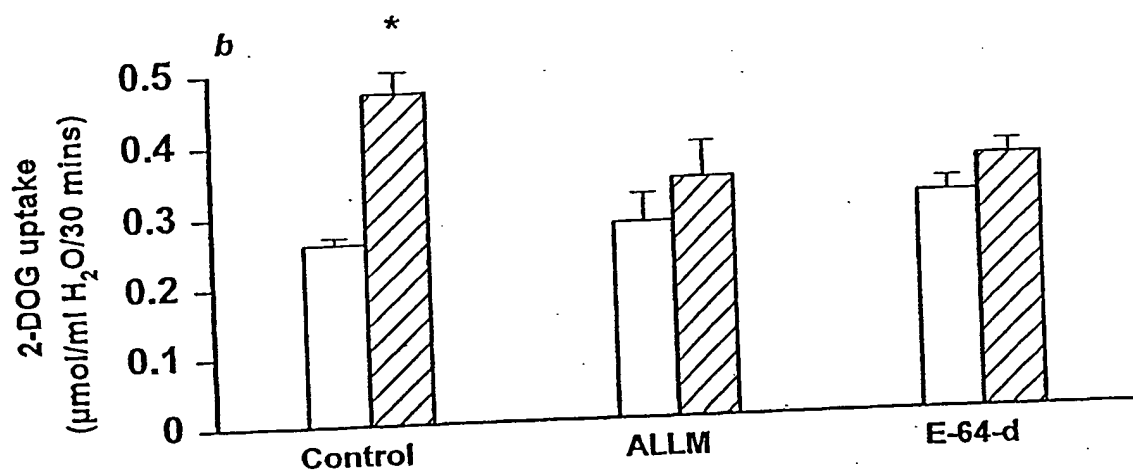
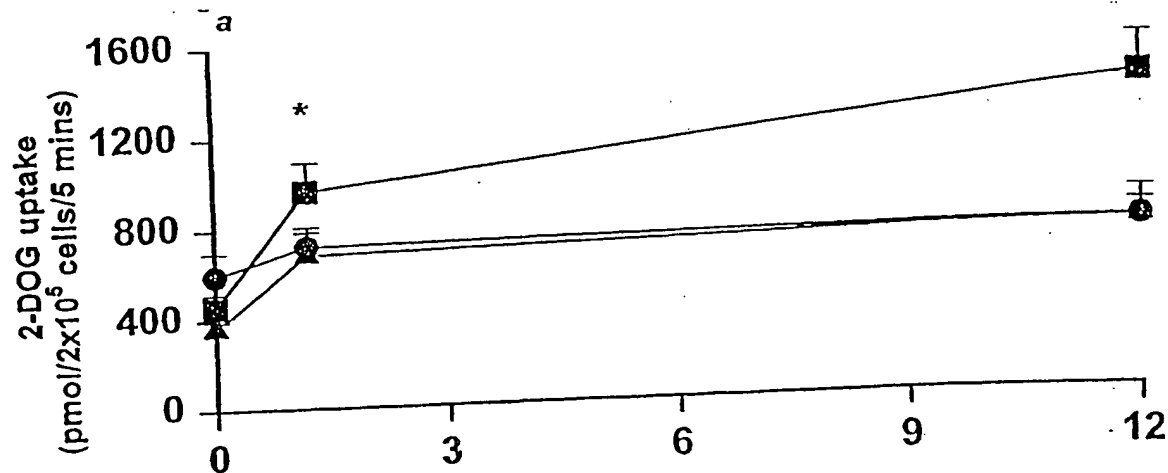


FIG. 13

Fig14. Effect of 48 hours exposure of islets to calpain inhibitors on insulin secretion

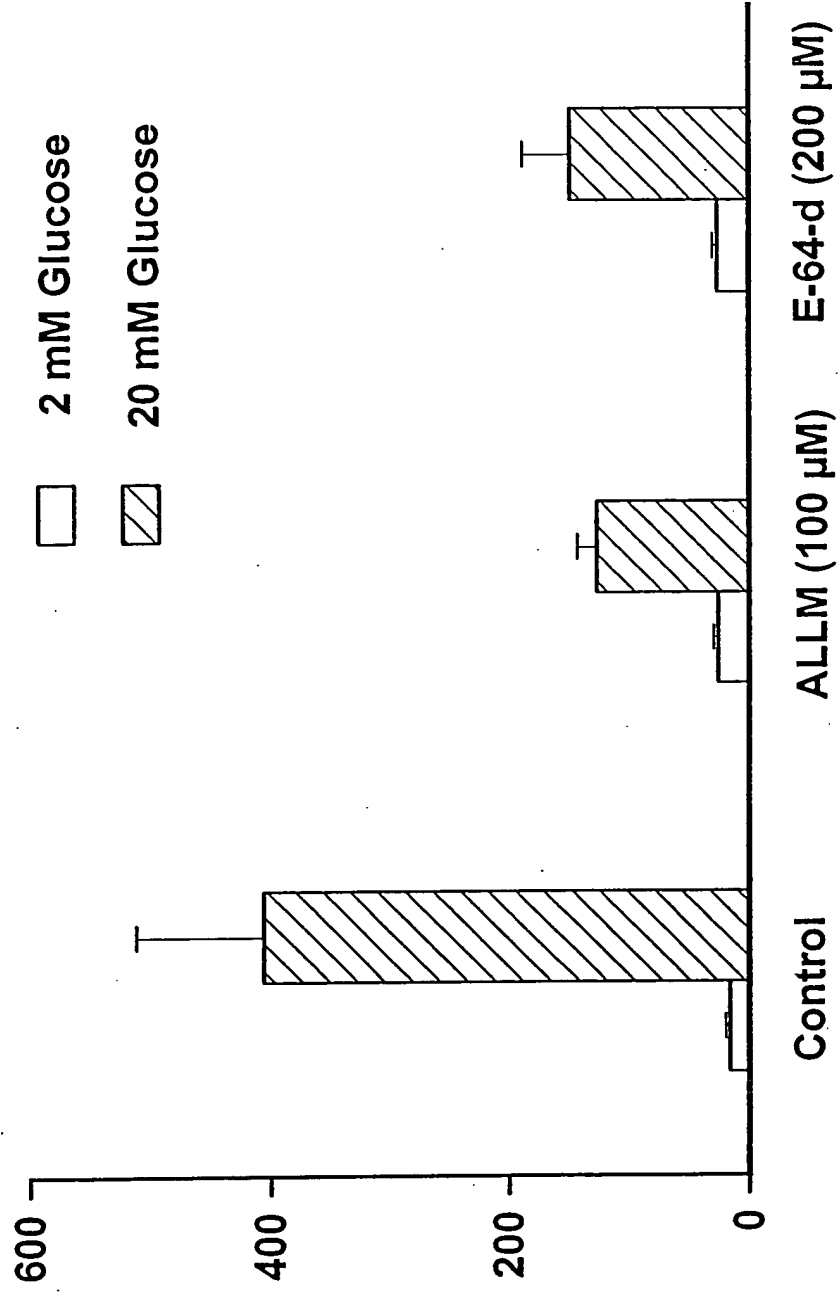


Fig 15 Insulin content in 48 hour cultured islets (n=4)

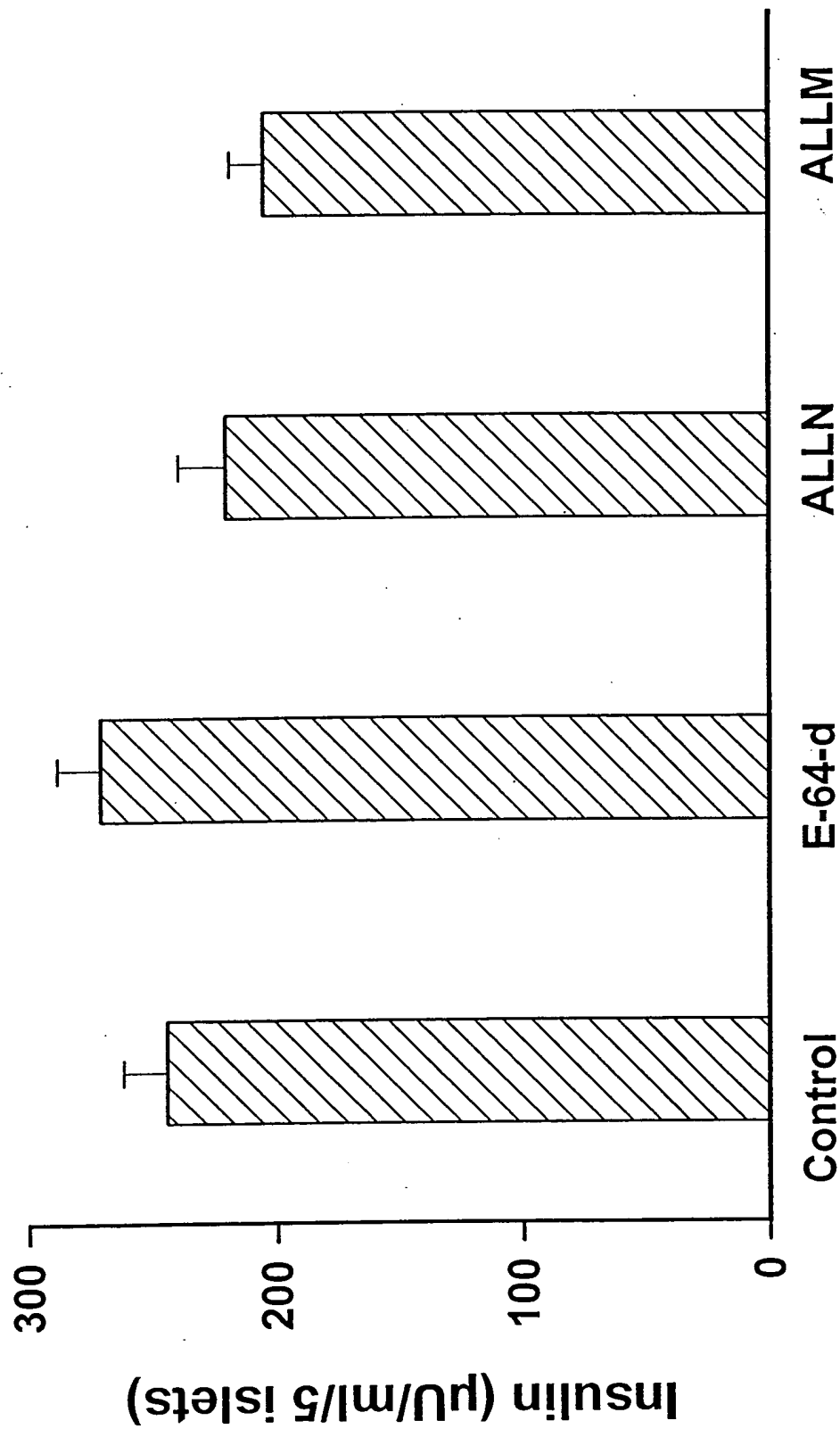


Fig16. ALLM dose response in 48 hour treated islets

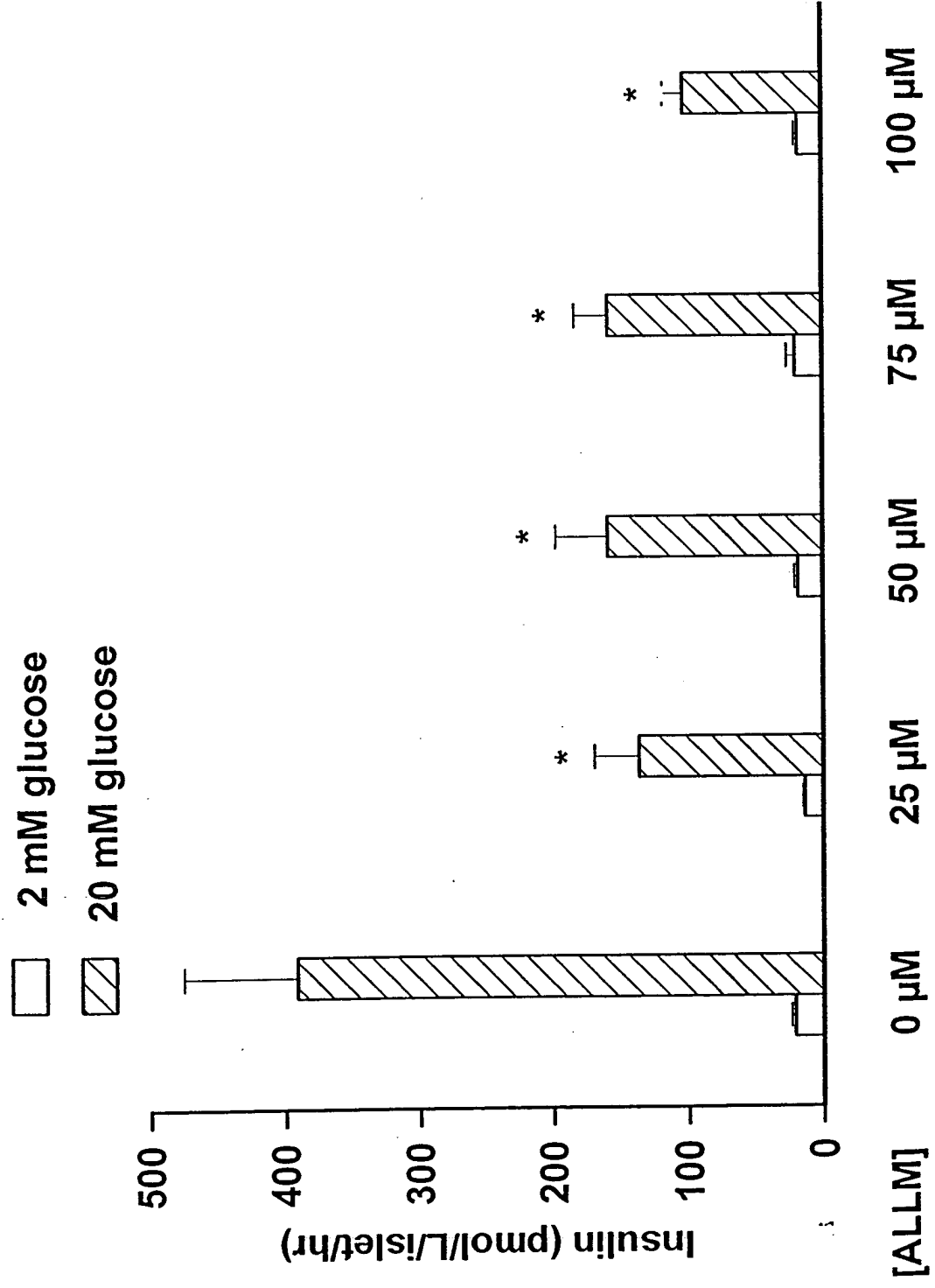
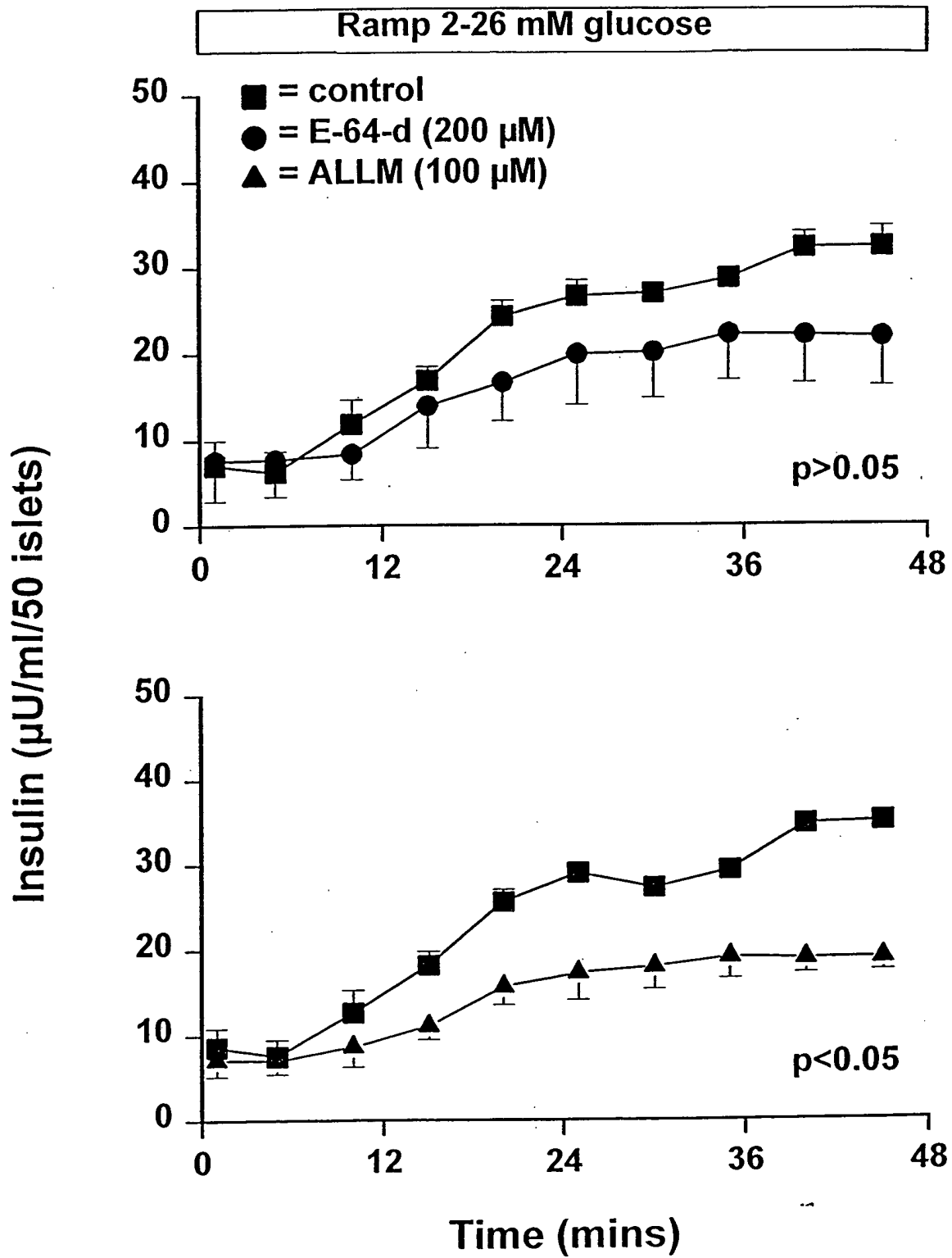


Fig17. Perifusion of 48 hour cultured islets (n=4)



Insulin secretion in ALLM or E64-d treated mouse islets: Reversal study

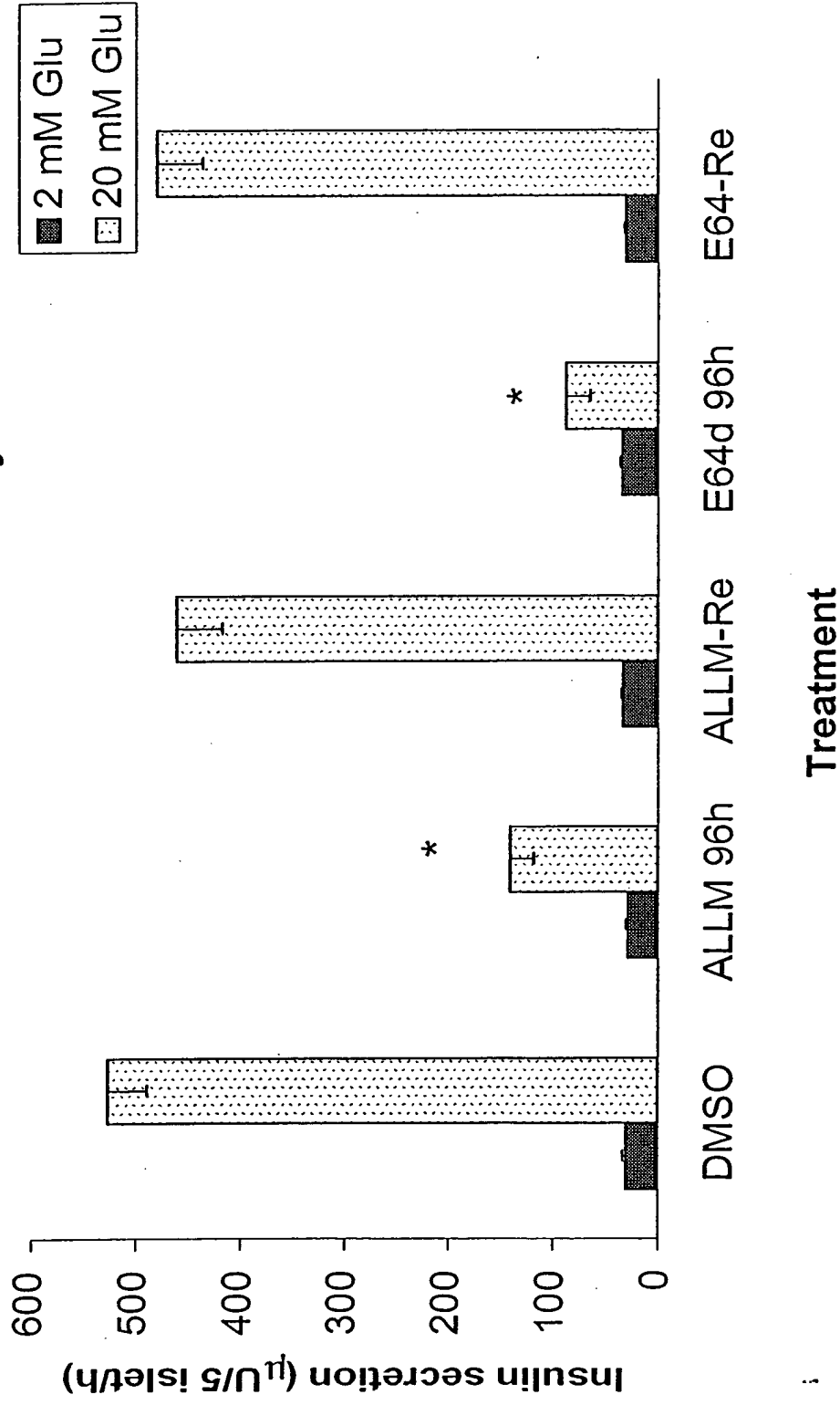
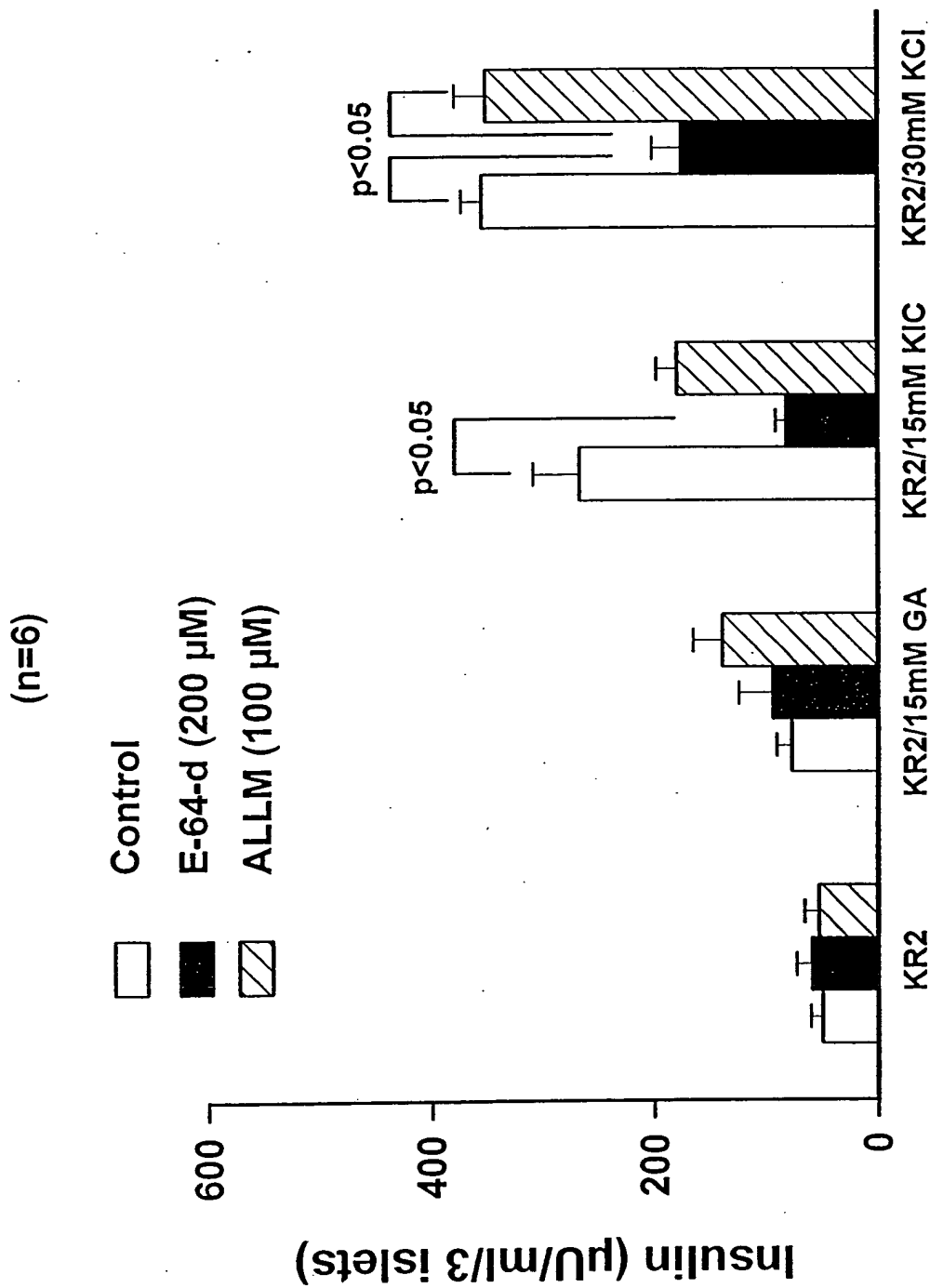


Fig. 18

Fig19. Insulin secretion by islets following exposure to calpain inhibitors for 48 hrs



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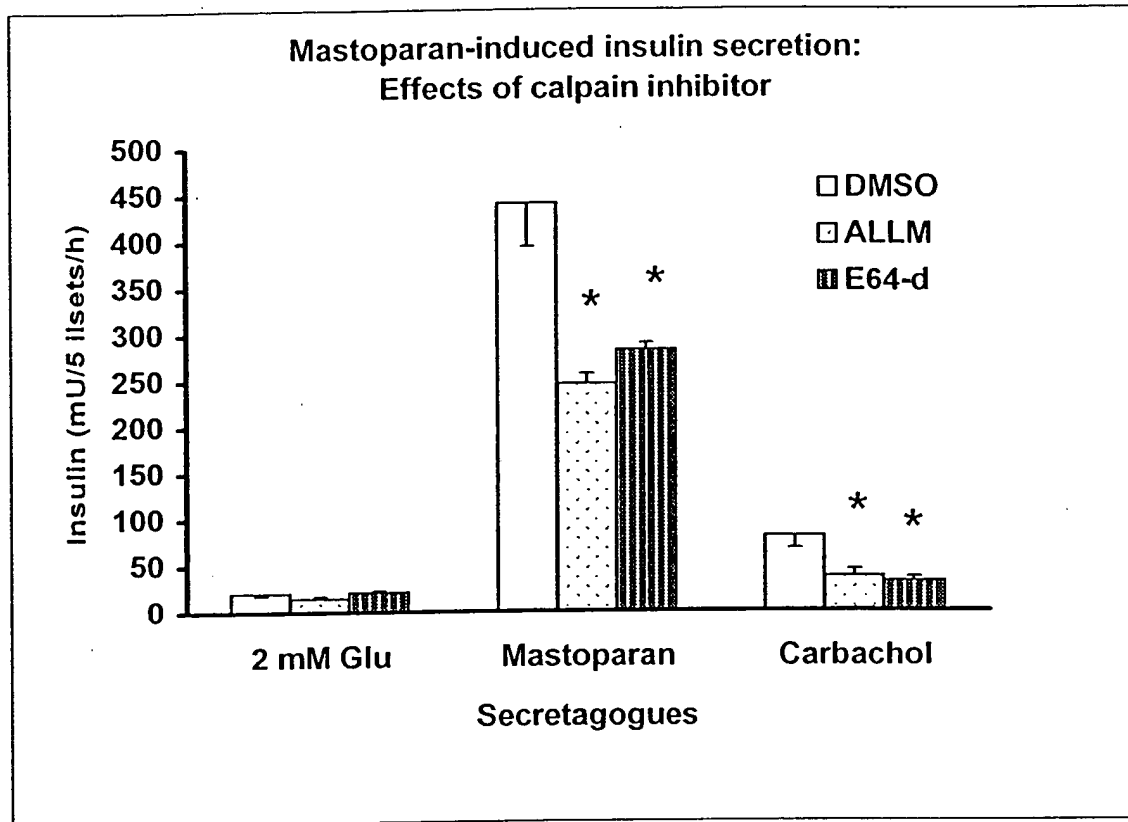
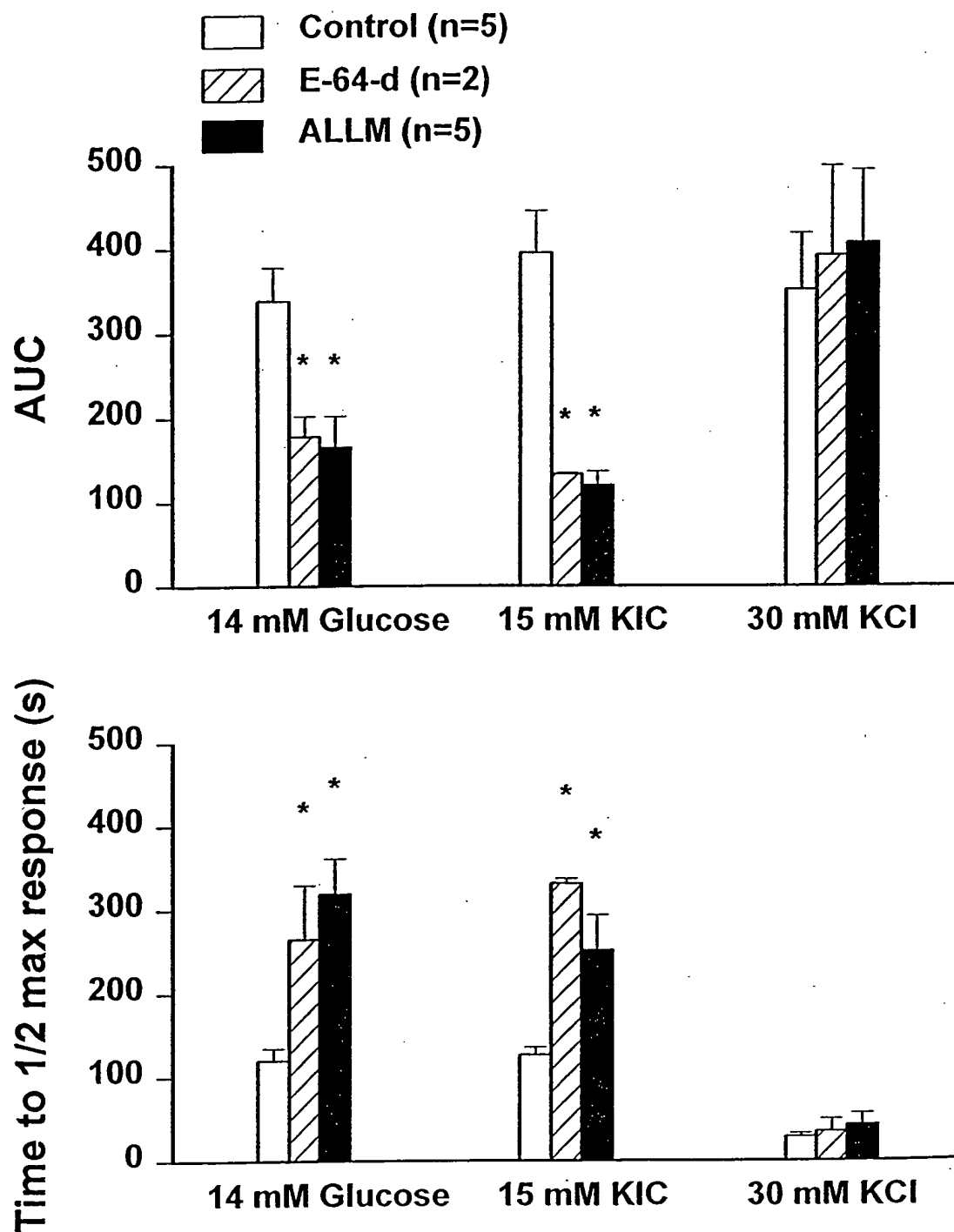


Fig. 20

Fig 21. $[C^{2+}]_i$ responses to glucose, KIC and KCl



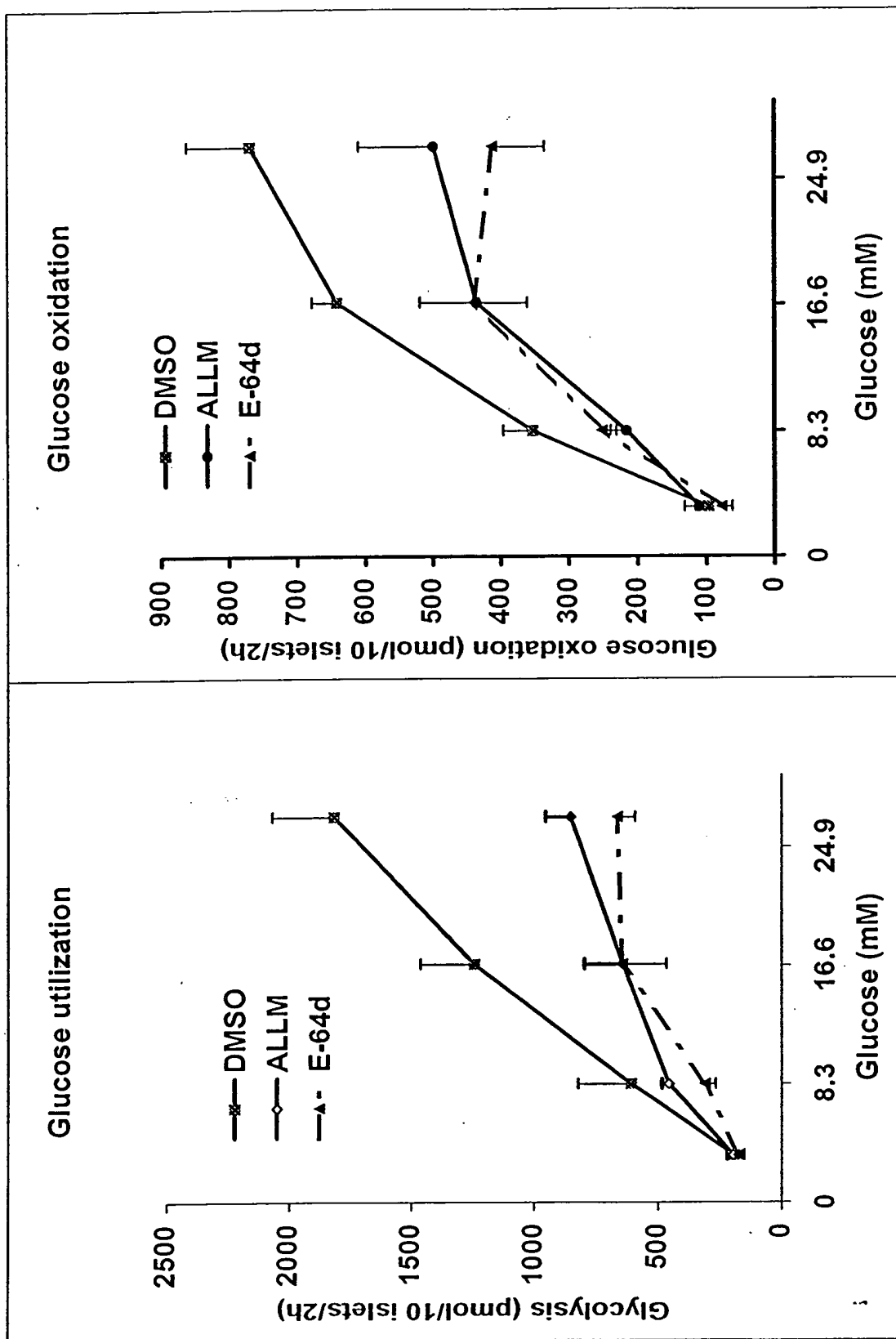
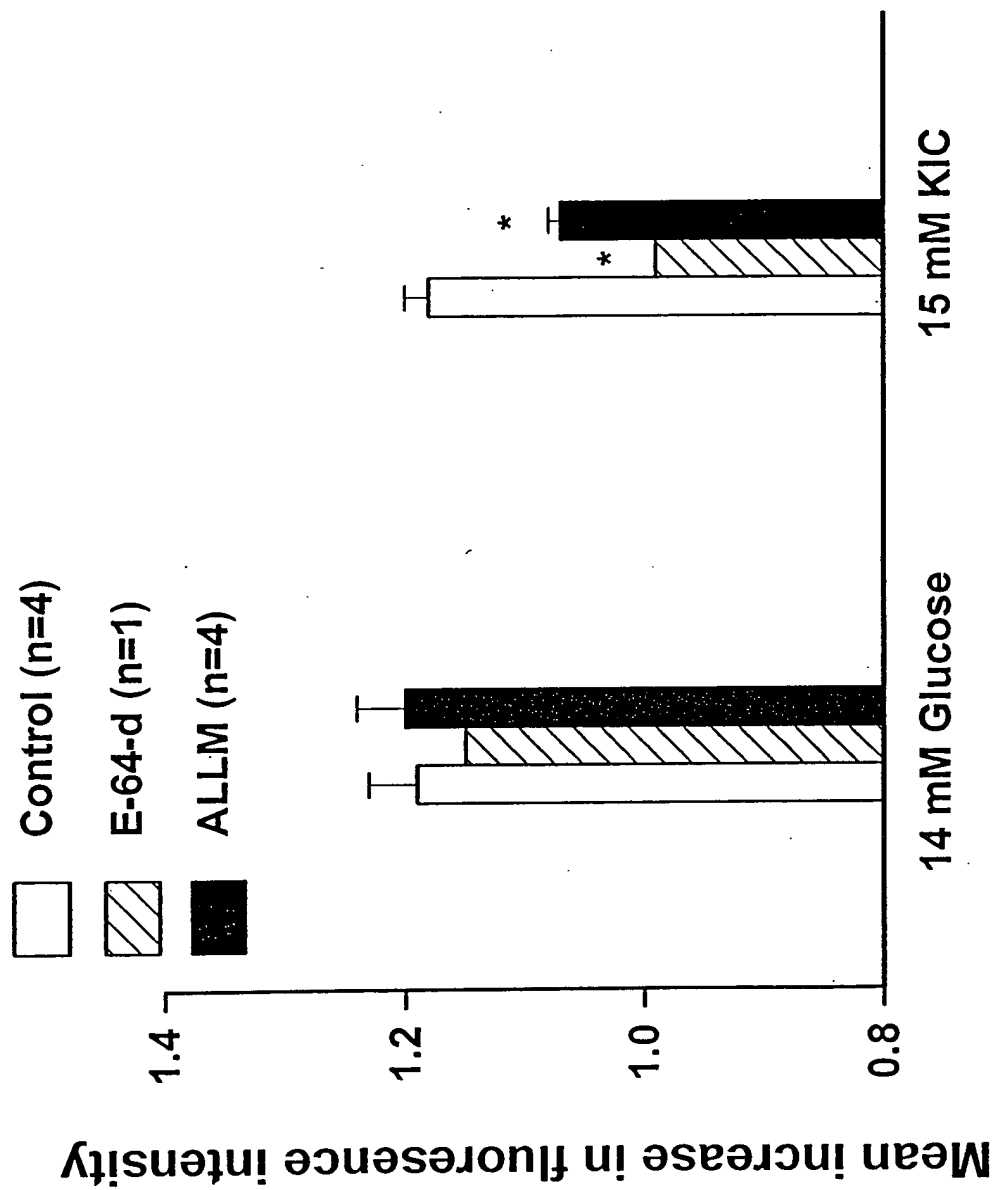


Fig. 22

Fig 23. NAD(P)H responses to glucose and KIC



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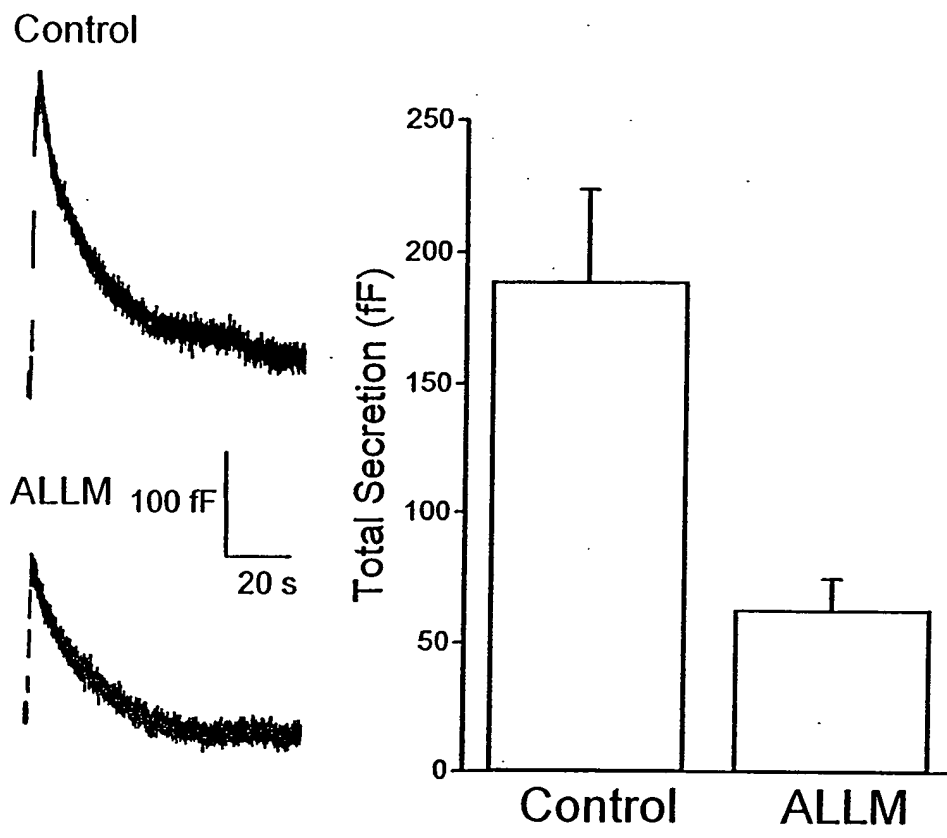
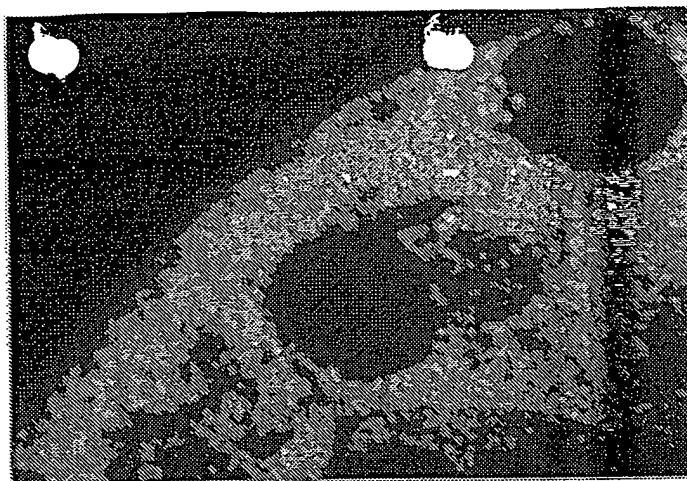


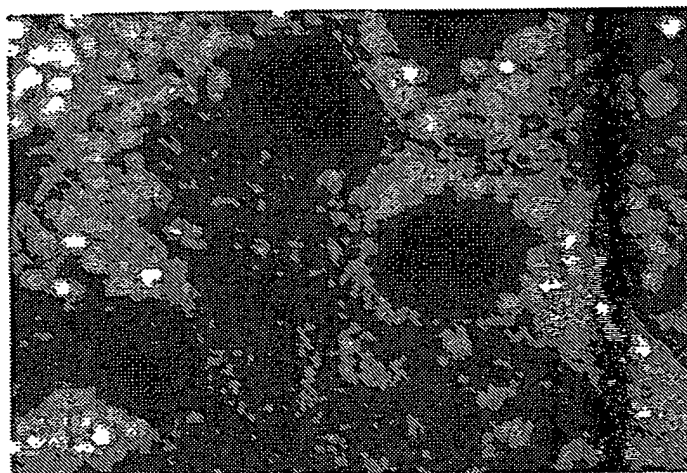
Fig. 24. Measurement of membrane capacitance in isolated β -cells

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DMSO



E64d



ALLM

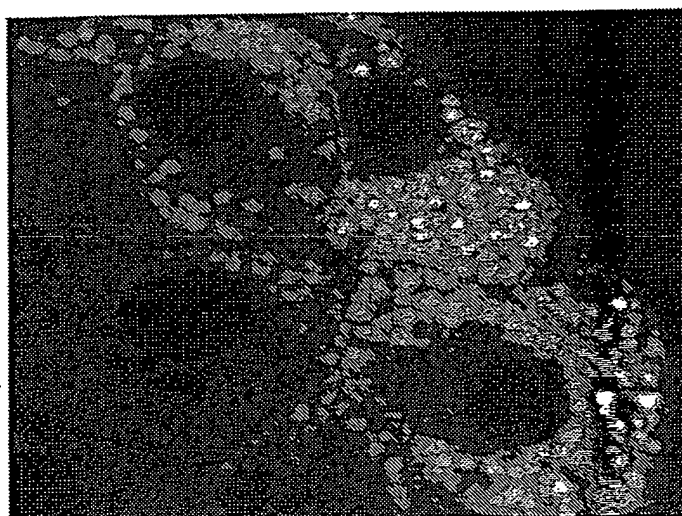


Fig. 25

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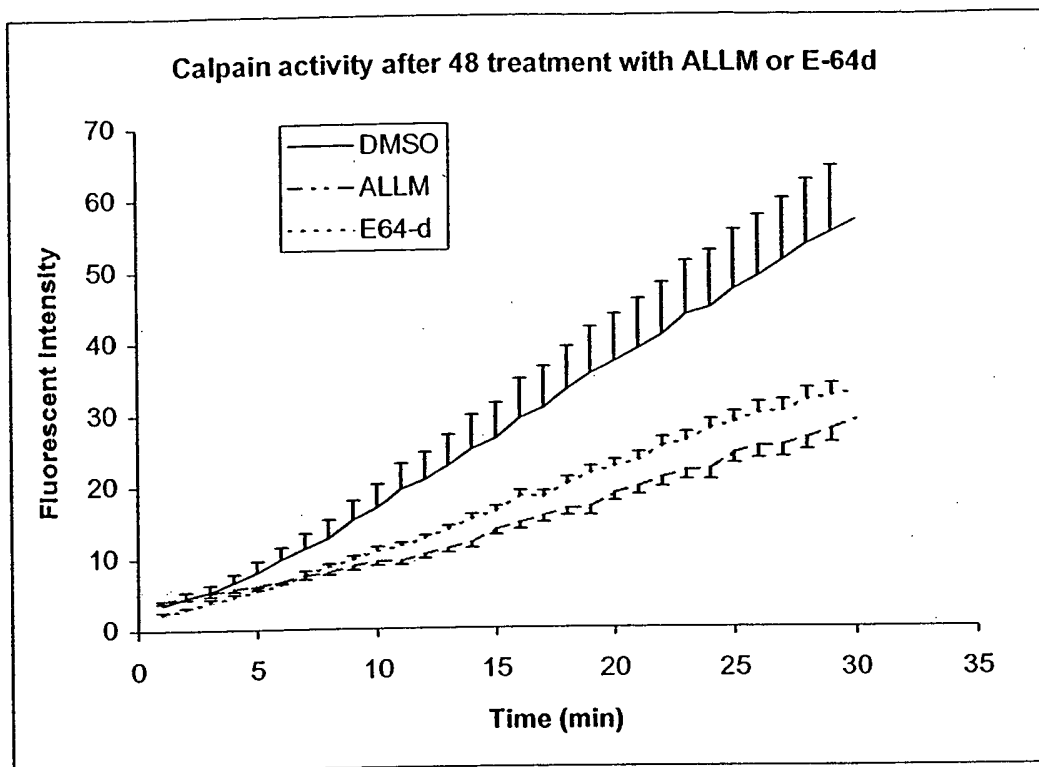


FIG. 26